## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/35796

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : F16L 15/06				
US CL : 52/223.13, 52/223.14; 403/87, 403/343				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols) U.S.: 52/223.13, 52/223.14; 403/87, 403/343				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched NONE				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) NONE				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a		Relevant to claim No.	
Х	US 5,238,329 A (LONG ET AL ) 24 AUGUST 1993	3 (24.08.1993) FIGURES 5, 9, 13	1-8	
Α	US 4,749,310 A (WHITE) 7 JUNE 1988(07.06.1988) FIGURE 1		1-8	
Α	US 5,466,095 A (SCOTT) 14 NOVEMBER 1995 (14.11.1995) FIGURES 8-18		1-8	
Further documents are listed in the continuation of Box C. See patent family annex.				
<ul> <li>Special categories of cited documents:</li> <li>"A" document defining the general state of the art which is not considered to be of particular relevance</li> </ul>		I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention		
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Date of the actual completion of the international search		Date of mailing of the international search report 0 6 JUL 2005		
22 June 2005 (22.06.2005)  Name and mailing address of the ISA/US		Authorized officer		
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